IDENTIFICATION

UHF Mid Range Reader
ID ISC.MRU102-PoE / ID ISC.MRU102-USB / ID ISC.MRU102-A

Core Features

- Read Range up to 4 m*
- Compact dimension
- Integrated Multiplexer
- 3 x SMA-Antenna Connector
- Integrated Antenna
- Configurable Output Power
- Available as Ethernet, USB and RS232 Version
- Supports DHCP and TCP Hostname (only –PoE)
- Supports EPC Low Level Reader Protocol (LLRP) via LLRP library
- International Certification

FEIG ELECTRONIC

IDENTIFICATION

ID ISC.MRU102-PoE / ID ISC.MRU102-USB / ID ISC.MRU102-A

SHORT-DESCRIPTION

The UHF Mid Range Reader ID ISC.MRU102 is designed for wireless communication with transponders according to the air interface standard EPC Class1 Gen2. It can be used for all kind of applications which require medium read range and convinces with its compact dimension and great performance.

- Read range of up to 4 m* in combination with the UHF-Antenna ID ISC.ANT.U270/270-EU
- 3 switchable Antenna outputs and 1 integrated Antenna (also suitable for communication with near field transponder) for different kind of application
- Configurable output power in the range between 50 mW and 500 mW
- 3 different versions are available; Ethernet, USB or RS232 for flexible integration into existing applications
- Mounting set available

Possible Application:
Industry 4.0, Production control, process optimization, Integration into machines, etc.

* The maximum Read Range is depending on the used antenna, the antenna cable, the used transponder and the environmental conditions.

ORDERING INFORMATION

ID ISC.MRU102-PoE Order number: 4492.000.00
Housed version with Ethernet interface,
3 x external antenna connectors SMA plug, 50Ohm,
1 x integrated antenna

ID ISC.MRU102-USB Order number: 4494.000.00
Housed version with USB interface,
3 x external antenna connectors SMA plug, 50Ohm,
1 x integrated antenna

ID ISC.MRU102-A Order number: 4495.000.00
Housed version with asynchronous RS232 interface,
3 x external antenna connectors SMA plug, 50Ohm,
1 x integrated antenna

OPTIONAL ACCESSORIES

- Power supply units
- Conntection cables
- Mounting sets
- Antennas
- Antenna cables

TECHNICAL DATA

Dimensions (W x H x D)	145 mm x 85 mm x 27 mm
Power supply	12 V DC to 24 V DC Power over Ethernet (only -PoE)
Power consumption	max. 7 W
Operating frequency	
- Europe	865 MHz to 868 MHz
- FCC	902 MHz to 928 MHz
Output power	50 mW to 500 mW, configurable
Antenna connection	3 x external (SMA-Female - 50 Ω) 1 x integrated antenna
Interfaces	
- PoE	Ethernet (PoE)
- USB	USB (full Speed)
- A	RS232-V24
Supported Transponder	EPC Class1 Gen2 ISO 18000-6-C (optional)
Software-Protocol	FEIG Reader Protocol
Protocol-Modes	ISO Host Mode, Buffered Read Mode, Notification Mode (only -PoE) Scan Mode (only –USB, -A)
Extras	Temperature Monitoring, RSSI
Temperature range	
Operation	–25 °C to 55 °C (12 V to 24 V) –25 °C to 45 °C (PoE)
Storage	–25 °C to 85 °C
Relative humidity	5% to 95 % (non-condensing)

APPLICABLE STANDARDS

Radio Regulation	
Europe	EN 302 208
USA	FCC 47 Part 15
Canada	RSS-210 Issue 8, RSS-GEN Issue 3 RSS-102 Issue 4
Japan	ARIB STD-T107
Brasil	Resolução Nº 506
EMC	EN 301 489
Safety	
Electrical Safety	EN 60950
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

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